

Flood Control Project Maintenance
2010 Structure Summary Report
Overall Unit and Item Ratings

Reclamation District No. 2063 Crows Landing

Reclamation District No. 2063 Pumping Plant (Nelson Drain)

Overall Unit Rating	Rated Item	Item Rating
M	Operating Log	A
	Operation & Maintenance Manual	U
	Plant Building	A
	Communications	A
	Safety	M
	Cranes	N
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	N
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	N
	Sluice / Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	U
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Flood Control Project Maintenance**Unit Cover Sheet****2010 Pumping Plant Inspection Results****Reclamation District No. 2063 Crows Landing**

Pumping Plant
Reclamation District No. 2063 Pumping Plant (Nelson Drain)

Pumping Plant Rating	M
Date of Inspection	9/9/2010
DWR Inspector	David Pesavento
Accompanied By	Joe Sallaberry RD 2063

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

Structure						Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)							09/09/2010 09/09/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Pump Stations	Operating Log		A	Inspector Comments: A copy of the operation log is now kept at the station.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	1
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		U	Inspector Comments: No copy was available at the plant or during the inspection. A copy should be kept at the station at all times.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		2
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: The plant appears to be structurally sound, vegetation has been recently cleared.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	3
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: District personnel carry cell phones.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		4
5	0.00	0.00	Pump Stations	Safety		M	Inspector Comments: Part of the power supply has become loose. The wires supplying power to the station could be stressed and separate. TID has refused to repair to date, inspector will contact and attempt to get it repaired.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	5
6	0.00	0.00	Pump Stations	Cranes		N	Inspector Comments: There is no crane at this plant.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		6
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The pumps appeared to be well maintained and 3 of the four pumps were operated during the inspection. Keys were not available to conduct a thorough inspection of the fourth pump.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	7
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The power supply is generally reliable. TID should do maintenance on the power riser above the plant building as noted in the safety issue..	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	8
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		N	Inspector Comments: There are no motors, electrical or mechanical equipment on this plant other than the pumps.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		9
10	0.00	0.00	Pump Stations	Pump Control Systems		A	Inspector Comments: The control systems appear to be in good condition and were functional during the inspection. One pump was inaccessible and not able to be inspected.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	10

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

Structure						Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)							09/09/2010 09/09/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: The pumps will function and the sumps are generally free of debris. The vegetation has been recently cleared and other maintenance completed and the sump is in good condition.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		11
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: The trash racks appear to be adequately maintained and free of debris. Maintenance has been recently completed including bank armoring and replacement/addition of vertical steel members on the rack.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	12
13	0.00	0.00	Pump Stations	Trash Rakes		N	Inspector Comments: The trash racks are manually cleared.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		13
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		A	Inspector Comments: The gate on the low flow pipe was partially visible due to insect activity in the riser, but the district stated that the gate is stainless steel and will not corrode for many years. The gate moved easily and otherwise appeared to be in good condition.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	14
15	0.00	0.00	Pump Stations	Electric Gate Operators		N	Inspector Comments: The slide gate is only manually operated.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		15
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Inspector Comments: The operator turned easily and appeared to be well maintained.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	16
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: Much of the structure has been recently painted, but some rust was observed that should not impact the integrity of the plant.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		17
18	0.00	0.00	Pump Stations	Flap Gates		U	Inspector Comments: There are no flap gates on this structure. The low flow channel is manually closed and the pressure pipes have vents breaking any siphon that might occur. District will repair the low flow pipe and add a flap gate prior to the next high water event.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	18
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: There are no closure structures at this plant.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		19
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: There is a low fence around the station, but it is not vandalized and does not appear to have an problem with unauthorized personnel accessing it.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °		20

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

Structure						Structure Length	Inspection Start/End	Inspector	
Reclamation District No. 2063 Pumping Plant (Nelson Drain)							09/09/2010 09/09/2010	David Pesavento	

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		A	Inspector Comments: Most pipes appear to be in adequate condition. The riser noted in a previous inspection has been repaired.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	21
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Inspector Comments: The pipes appear to be in adequate condition and have been recently painted.	37.431068 ° -121.011732 °	37.431068 ° -121.011732 °	Y	22

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

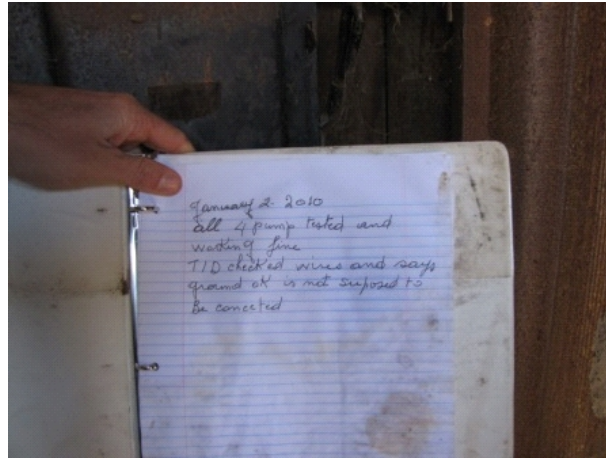
Crows Landing

Structure	Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)		09/09/2010 09/09/2010	David Pesavento

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Operating Log

View of the operation and maintenance log.

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Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

View of plant and channel from the north-east.

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Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

View of the plant and channel from the east.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

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Reclamation District No. 2063 Pumping Plant (Nelson Drain)		09/09/2010 09/09/2010	David Pesavento

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
View of the plant from the levee looking east.	
dpesaven_t_20100909_168.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Safety
View of the electrical service connection to the station with the loose ground wire.	
dpesaven_t_20100909_169.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Safety
Additional view of the electrical service connection to the plant.	
dpesaven_t_20100909_170.jpg	

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Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

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Reclamation District No. 2063 Pumping Plant (Nelson Drain)		09/09/2010 09/09/2010	David Pesavento

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps

View of one of the pumps with control panels in the background.

dpesaven_t_20100909_181.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps

View of another pump with newer control panels behind.

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Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps

View of another pump.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

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Reclamation District No. 2063 Pumping Plant (Nelson Drain)		09/09/2010 09/09/2010	David Pesavento

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
View of another pump in a separate room with the control panel in the foreground.	
dpesaven_t_20100909_184.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power
View of the electrical service and transformer.	
dpesaven_t_20100909_171.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems
View of one of the control panels.	
dpesaven_t_20100909_172.jpg	

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Crows Landing

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Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems

View of another electrical/control panel.

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Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks

View of the channel side of the trash rack for the plant. Note the recently placed concrete protection and steel vertical members of the trash rack.

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Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sluice / Slide Gates

View of the riser for the sluice gate. A clear view of the sluice gate is obstructed by spider webs.

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Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

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Reclamation District No. 2063 Pumping Plant (Nelson Drain)		09/09/2010 09/09/2010	David Pesavento

Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Manual Gate Operators

View of the sluice gate operator.

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Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates

View of the gravity discharge outlet.

dpesaven_t_20100909_178.jpg



Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

View of the discharge pipe vents acting as vacuum breakers.

dpesaven_t_20100909_175.jpg



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Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

View of the discharge ends of the outlet pipes.

dpesaven_t_20100909_179.jpg



Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

View of the waterward side of the levee with the vents visible.

dpesaven_t_20100909_180.jpg



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pressurized Pipe

View of one of the pipes from the pumps.

dpesaven_t_20100909_185.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Crows Landing

Structure	Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)		09/09/2010 09/09/2010	David Pesavento

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pressurized Pipe
View of two of the pipes from the pumps.	
dpesaven_t_20100909_186.jpg	

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